

Title (en)
INTEGRATED MICRO OPTICAL BENCH WITH FLEXIBLE DIELECTRIC SUBSTRATE

Title (de)
INTEGRIERTE MIKROOPTISCHE BANK MIT FLEXIBLEM DIELEKTRISCHEM SUBSTRAT

Title (fr)
BANC MICRO-OPTIQUE INTEGRE A SUBSTRAT DIELECTRIQUE FLEXIBLE

Publication
EP 1581829 A1 20051005 (EN)

Application
EP 03796686 A 20031205

Priority
• US 0338688 W 20031205
• US 24823702 A 20021230

Abstract (en)
[origin: US2004126050A1] A novel micro optical system as a platform technology for electrical and optical interconnections, thermal and mechanical assembly and integration of electronic, optoelectronic, passive and active components. This platform provides optical coupling and chip-to-chip interconnection by microwave electrical, optical guided and unguided waves, and power or bias electrical contacts or interfaces by a novel chip in flexible circuit, rigid or inflexible embodiments.

IPC 1-7
G02B 6/42

IPC 8 full level
G02B 6/42 (2006.01); **G02B 6/43** (2006.01)

CPC (source: EP KR US)
G02B 6/12 (2013.01 - KR); **G02B 6/42** (2013.01 - KR); **G02B 6/4206** (2013.01 - EP US); **G02B 6/4214** (2013.01 - EP US); **G02B 6/43** (2013.01 - EP US); **H01L 24/18** (2013.01 - US); **H01L 24/20** (2013.01 - EP); **H01L 24/19** (2013.01 - EP); **H01L 2224/73267** (2013.01 - EP); **H01L 2224/9222** (2013.01 - EP); **H01L 2924/12041** (2013.01 - EP US); **H01L 2924/12042** (2013.01 - EP US); **H01L 2924/12043** (2013.01 - EP US); **H01L 2924/14** (2013.01 - EP US)

Citation (search report)
See references of WO 2004061506A1

Citation (examination)
• US 5452182 A 19950919 - EICHELBERGER CHARLES W [US], et al
• US 6040624 A 20000321 - CHAMBERS BENJAMIN C [US], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2004126050 A1 20040701; **US 7327022 B2 20080205**; AU 2003298924 A1 20040729; CA 2511674 A1 20040722; CA 2511674 C 20130122; CN 100409053 C 20080806; CN 1732399 A 20060208; EP 1581829 A1 20051005; JP 2006512612 A 20060413; JP 4418761 B2 20100224; KR 101097624 B1 20111222; KR 20050089994 A 20050909; WO 2004061506 A1 20040722

DOCDB simple family (application)
US 24823702 A 20021230; AU 2003298924 A 20031205; CA 2511674 A 20031205; CN 200380107992 A 20031205; EP 03796686 A 20031205; JP 2004565217 A 20031205; KR 20057012269 A 20031205; US 0338688 W 20031205